Training, Workforce Development, and Diversity (TWD) Programs

K-12	Community College	Undergraduate	Post-bac	Graduate MS	Graduate PhD	Postdoctoral	Faculty
		U-RISE			G-RISE		
		MARC			IMSD		
	Bridges to the Baccalaureate			Bridges to the Doctorate	ARC F99	K00	
		BUILD			NRSA Fellowships F31/F30	F32	F33
SEPA			PREP		T32 NRSA		
						IRACDA	
						K99	R00
						MOSAIC K99 UE5	R00
						PRAT	
							K08, K23, K25
		NIGMS Diversity Supplement Program					
		Innovative Programs to Enhance Research Training - R25					
		National Research Mentoring Network – U24, U01					
		R25 Training Modules					

High School	Community College	Undergraduate	Post-bac	Graduate MS	Graduate PhD	Postdoctoral	Faculty

NIGMS Diversity Supplement Program

NRSA Fellowships F31/F30	F32	F33

ARC F99	K00

K99	R00

MOSAIC K99	R00

PRAT

K08, K23, K25

LRP

Awards for Individuals – Finding the Funding Opportunity Announcement

- **Most NIGMS individual awards use the "parent" Funding Opportunity – published by the Office of Extramural Research**

- **Exceptions: ARC, MOSAIC, and PRAT**

Visit the NIH Webpage for Parent FOAs

https://researchtraining.nih.gov/programs

Read the Funding Announcement

Department of Health and Human Services
Part 1. Overview Information

Participating Organization(s)

National Institutes of Health (NIH)

Components of Participating Organizations

National Cancer Institute (NCI)
National Eye Institute (NEI)
National Heart, Lung, and Blood Institute (NHLBI)
National Human Genome Research Institute (NHGRI)
National Institute on Aging (NIA)
National Institute on Alcohol Abuse and Alcoholism (NIAAA)
National Institute of Allergy and Infectious Diseases (NIAID)
National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)
Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)
National Institute on Deafness and Other Communication Disorders (NIDCD)
National Institute of Dental and Craniofacial Research (NIDCR)
National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
National Institute on Drug Abuse (NIDA)
National Institute of Environmental Health Sciences (NIEHS)
National Institute of Mental Health (NIMH)
National Institute on Minority Health and Health Disparities (NIMHD)
National Institute of Neurological Disorders and Stroke (NINDS)
National Institute of Nursing Research (NINR)
National Library of Medicine (NLM)
National Center for Complementary and Integrative Health (NCCIH)
Division of Program Coordination, Planning and Strategic Initiatives, Office of Research Infrastructure Programs (ORIP)

Special Note: Not all NIH Institutes and Centers participate in Parent Announcements. Applicants should carefully note which ICs participate in this announcement and view their respective areas of research interest and requirements at the Table of IC-Specific Information, Requirements, and Staff Contacts website. ICs that do not participate in this announcement will not consider applications for funding. Consultation with NIH staff before submitting an application is strongly encouraged.
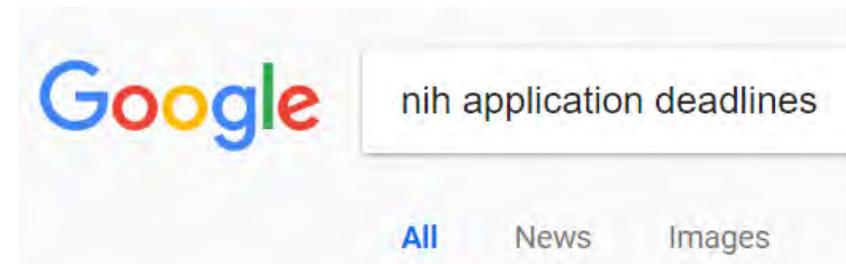
Funding Opportunity Title

Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral Fellowship (Parent F31)

Not all participate

Keep in mind the deadlines: 1-3 per year

K series *renewal, resubmission, revision*	**Research Career Development**	March 12	July 12	November 12
F Series Fellowships (including F31 Diversity – NOT-OD-17-029) *new, renewal, resubmission*	***Individual*** National Research Service Awards (Standard) (see NRSA Training Page)	April 8	August 8	December 8

High School	Community College	Undergraduate	Post-bac	Graduate MS	Graduate PhD	Postdoctoral	Faculty

NIGMS Diversity Supplement Program

				NRSA Fellowships F31/F30	F32	F33

	ARC F99	K00

K99	R00

MOSAIC K99	R00

PRAT

K08, K23, K25

LRP
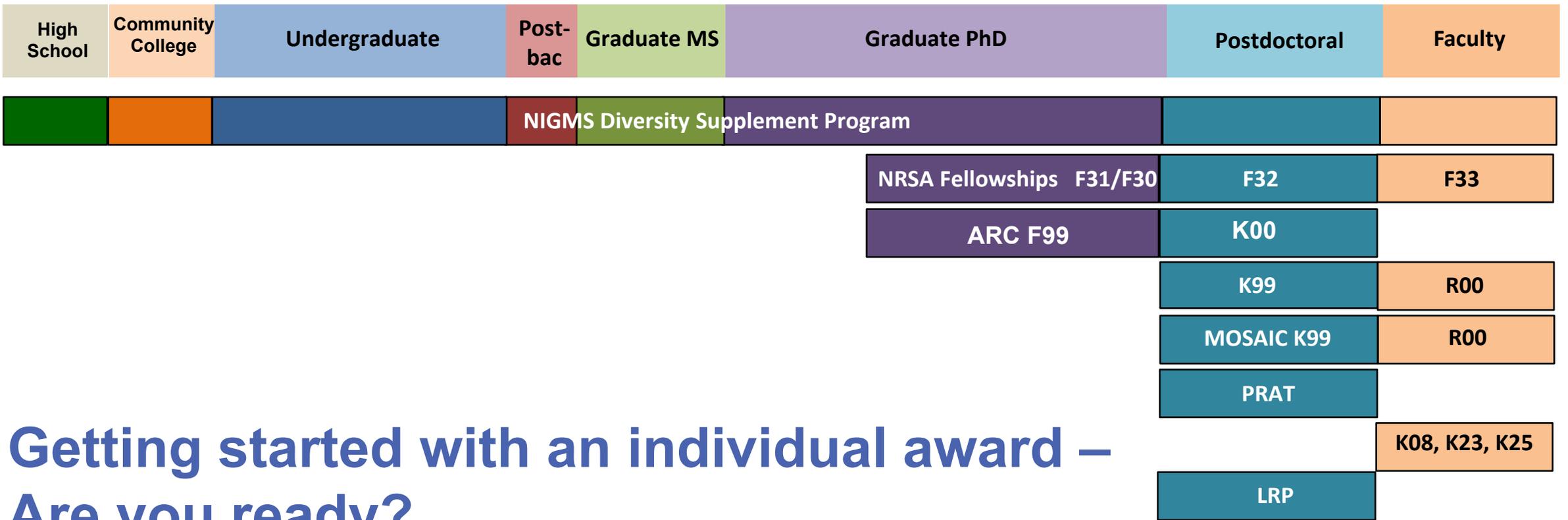
Getting started with an individual award – Are you ready?

Do you have:
- A research sponsor?
- A feasible scientific project that addresses a need or barrier in biomedicine?
- Strong training potential in the current research environment?
- Plans for a career as a research scientist?

NIGMS Diversity Supplement Program

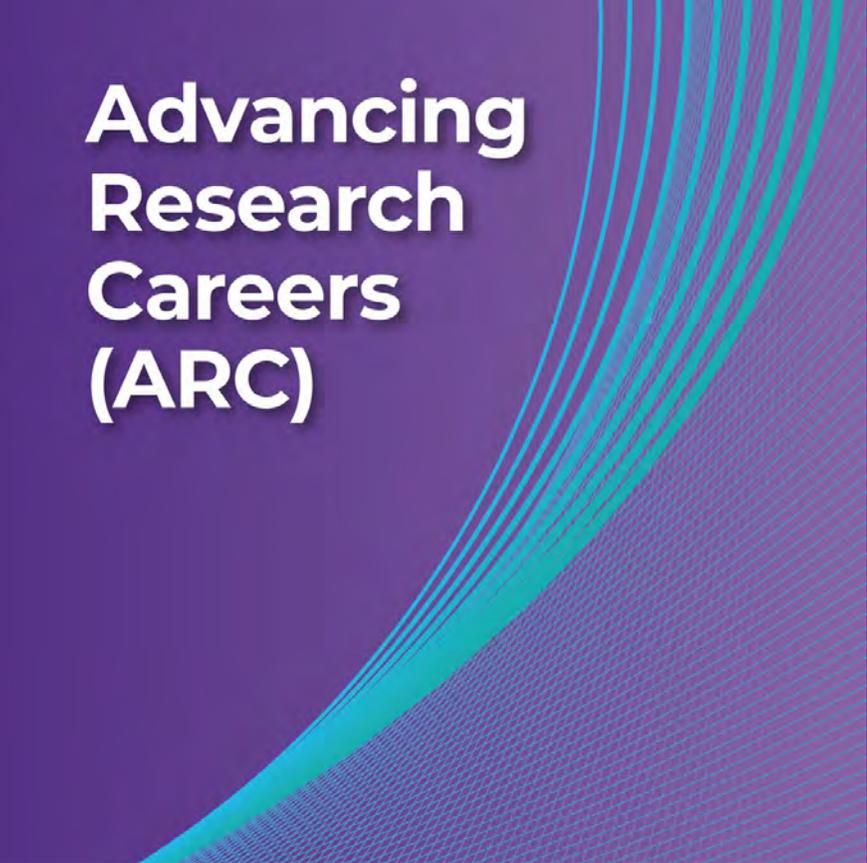| High School	Community College	Undergraduate	Post-bac	Graduate MS	Graduate PhD	Postdoctoral	Faculty

NIGMS Diversity Supplement Program

- Work with a Principal Investigator who has an active NIGMS research grant to submit a request for an administrative diversity supplement to the grant
- Use the parent funding announcement but be sure to contact the program contact first:
  - ➢ NIGMS-DSP@nigms.nih.gov
- NIGMS applications accepted on a rolling basis Oct 1 – May 31.

Advancing Research Careers (ARC)

- Part of NIH's efforts to enhance diversity within the academic biomedical research workforce
- Supports transition from predoctoral research training to postdoctoral research and career development
  - F99: 1-2 years of support to complete PhD research training and identify postdoctoral mentor
  - K00: Up to 3 years of support

Advancing Research Careers (ARC)

Awards to organizations (UE5) to provide mentoring and career development

ARC F99/K00 applicants compete and are selected by NIGMS

ARC F99/K00 scholars participate in cohorts managed by UE5 recipients
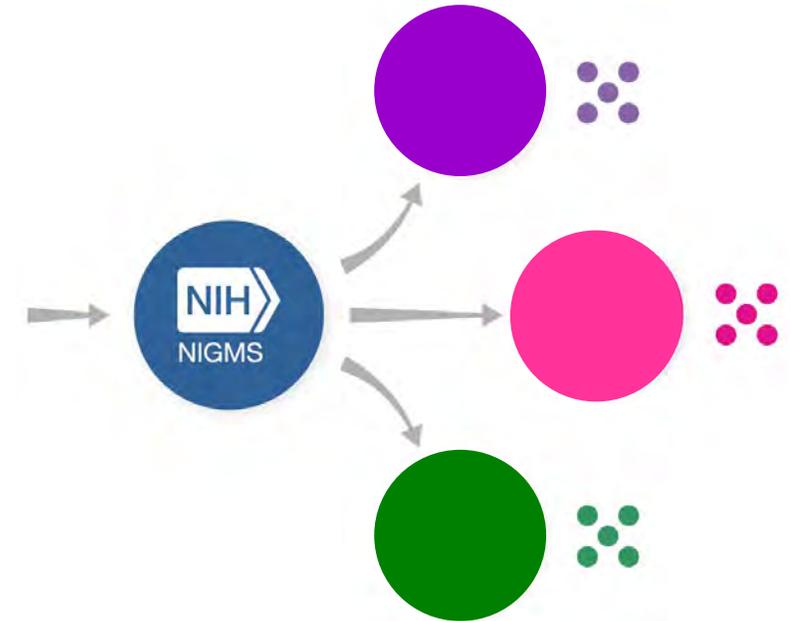
Advancing Research Careers (ARC)

Institutionally-Focused Research Education Award (UE5): PAR-23-221

Predoctoral to Postdoctoral Transition Award to Promote Diversity (F99/K00): PAR-23-222

- UE5 due date: January 29, 2024 (annual)

- F99 due date: June 13, 2024 (3/year)

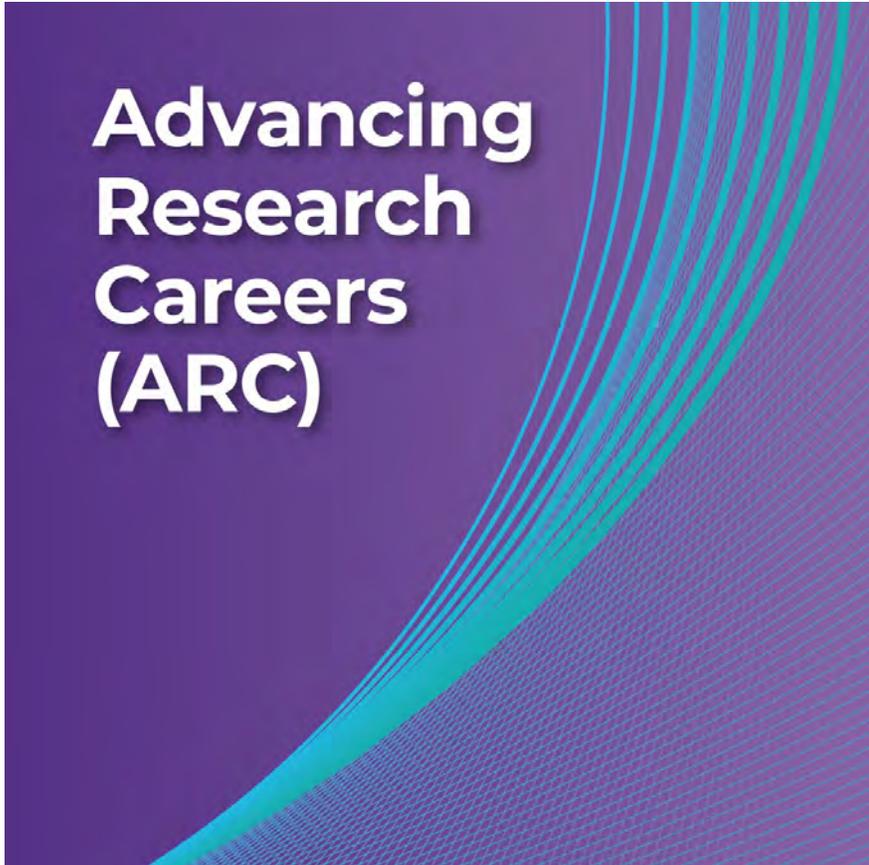# Individual Predoctoral Fellowship to Promote Diversity in Health-Related Research (Parent F31-Diversity)

Individualized, mentored research training from outstanding faculty sponsors while conducting well-defined research projects in scientific health-related fields relevant to NIGMS.

Graduate PhD

Postdoctoral

April 8, 2024 – last receipt date for NIGMS

F31 Diversity

ARC F99 K00

**NIGMS Diversity Enhancing Program –
Advancing Research Careers (ARC)
June 13: PAR-23-222**

ARC Research Education Hub (UE5)

Maximizing Opportunities for Scientific and Academic Independent Careers (MOSAIC) – NIGMS FOA

Postdoctoral Career Transition Award to Promote Diversity (K99/R00)
Institutionally Focused Research Education Cooperative Agreement to Promote Diversity (UE5)

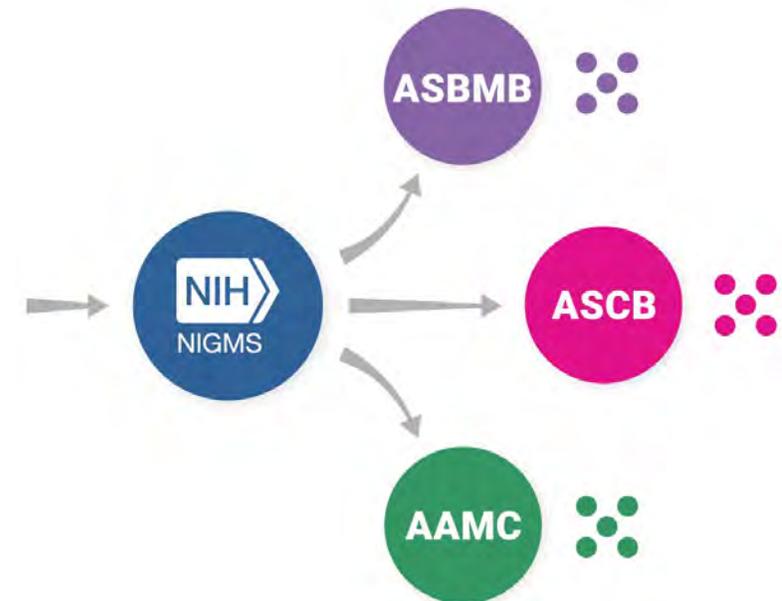

Awards to scientific societies (UE5) and time to stand up the program

MOSAIC K99/R00 Applicants Compete

MOSAIC K99/R00 Scholars Participate in Cohorts Organized by UE5

https://www.nigms.nih.gov/training/careerdev/Pages/MOSAIC.aspx

NIGMS Loan Repayment Program (LRP)

Individuals conducting research training at Non-Federal Government institutions and are currently, or have been, supported by one of these NIGMS Programs:

NIGMS focus and requirements:
- Postdoctoral or faculty level
- Conducting research at non-profit institutions
- Participation in specific NIGMS programs (past or present): MOSAIC (K99), IRACDA, IMSD, G-RISE, diversity supplements, diversity F31

National Institute of General Medical Sciences

NIGMS Institutional Training Programs

| Community College | Undergraduate | Post-bac | Graduate MS | Graduate PhD | Postdoctoral |

Bridges to the Baccalaureate

U-RISE

MARC

PREP

Bridges to the Doctorate

G-RISE

IMSD

Basic Biomedical T32

MSTP

LEAD MSTP

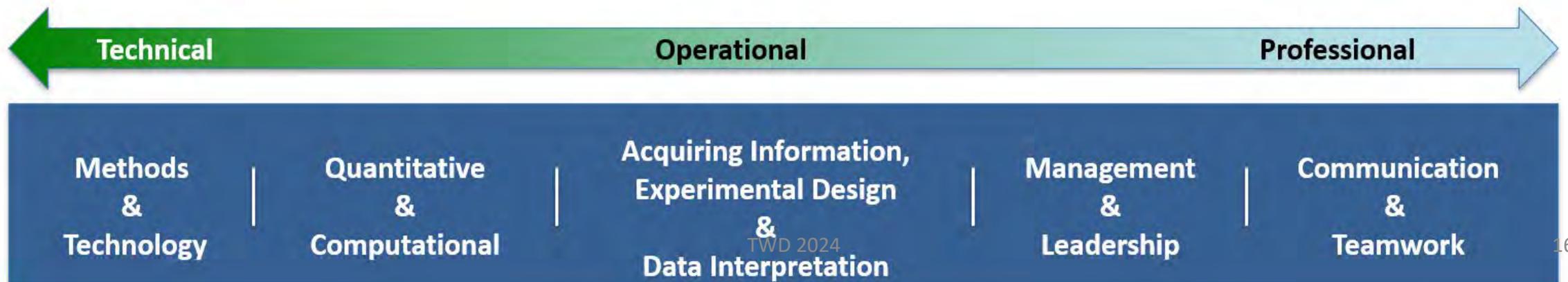**IRACDA**

Clinical Postdoc T32
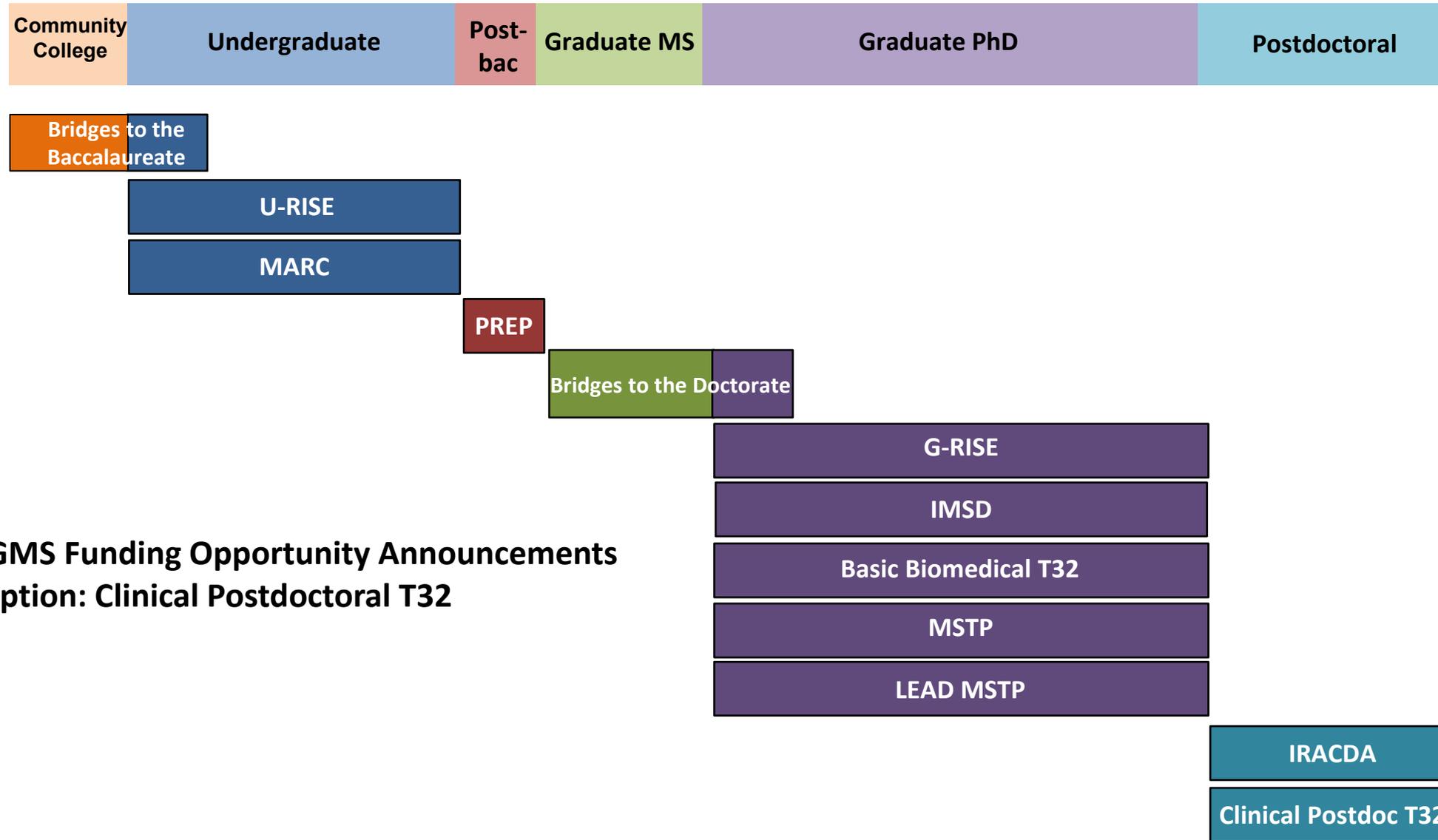
Use NIGMS Funding Opportunity Announcements
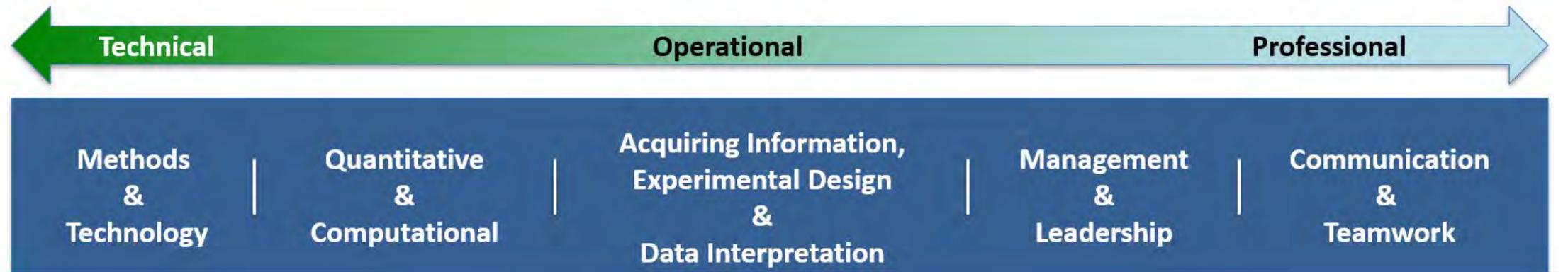- **Exception: Clinical Postdoctoral T32**

All NIGMS Training Programs Should -

- Focus on technical, operational and professional skills development
- Promote rigor and reproducibility in research
- Teach the responsible and safe conduct of research
- Promote diversity, equity and inclusion
- Encourage inclusive, safe, and supportive research environments
- Use evidence-informed educational and mentoring practices
- Employ cohort-building activities and interventions that enhance the trainees' science identity and self-efficacy
- Provide individualized mentoring and oversight throughout
- Introduce trainees to a variety of scientific research areas and careers
- Collect and disseminate data on the success/failure of educational aims; make career outcomes publicly available

| Technical		Operational		Professional
Methods & Technology	Quantitative & Computational	Acquiring Information, Experimental Design & Data Interpretation	Management & Leadership	Communication & Teamwork

All NIGMS Training Programs Should -

- Have **strong** institutional support
- Encourage program leadership to have complementary expertise
- Build a diverse faculty cohort with a strong commitment to training and mentoring
- Display coordinated interactions and synergies with other NIGMS-funded training programs at the institution

Technical	Operational		Professional
Methods & Technology	Quantitative & Computational	Acquiring Information, Experimental Design & Data Interpretation	Management & Leadership

Communication & Teamwork

Institutional National Research Service Awards (NRSA) T34/T32

Provide
- Student stipends to defray costs of living
- Tuition remission
- Training related expenses
- Indirect costs (8%)
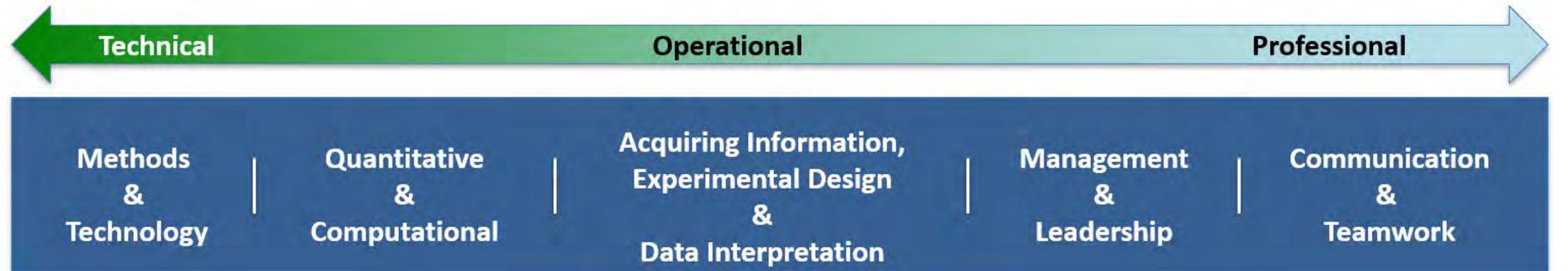
PreK – 12, Undergraduate, & Postbac Programs

Undergrad trainees from our BUILD, MARC, and RISE programs share their summer #researchtraining bit.ly/2xZOgaL

SEPA
SCIENCE EDUCATION PARTNERSHIP AWARD
SUPPORTED BY THE NATIONAL INSTITUTES OF HEALTH

SEPA Projects ▾   Resources ▾   Publications   News ▾   Community ▾   Evaluation

Virtual NIH SciEd 2020
NOVEMBER 9 - 12, 2020. ONLINE VIA ZOOM

NIH SciEd 2020: A virtual mini-conference

Interactive partnerships between biomedical/clinical researchers and pre-kindergarten to grade 12 teachers, schools, and other interested organizations.

Provides opportunities for students from underserved communities to consider careers in basic or clinical research.

PAR-23-137

Bridges to the Baccalaureate (T34)

4-year Undergraduate	Postbac	Graduate M.S.	Graduate Ph.D.	Postdoctoral

Community College

4-year Partner

Bridges to Bac (B2B)

- Emphasizes the development of a diverse pool of undergraduates that bridge from two-year to four-year institutions, and subsequently earn their baccalaureate degree in the biomedical sciences

- Encourages a strong partnership that offers a well-integrated set of activities both pre-and post-bridging (e.g., trainees conduct research both prior to and after bridging).

- Encourages articulation agreements to reduce the time-to-degree.

Applications due in September

Maximizing Access to Research Careers (MARC)
Undergraduate Research-Training Initiative for Student Enhancement (U-RISE)

Undergraduate	Postbac	Graduate MS	Graduate PhD	Postdoctoral

MARC — Institutions ≥ \$7.5 million research project grants (RPG)

Applications due in May

U-RISE — Institutions < \$7.5 million research project grants (RPG)

T34
- Goal is to develop a diverse pool of undergraduates who complete their baccalaureate degree, and transition into and complete biomedical, research-focused higher degree programs (e.g., Ph.D. or M.D./Ph.D.).
- Trainee Support for 1-3 years, including a summer research experience

Postbaccalaureate Research Education Program (PREP) (R25)

The goal is to develop a diverse pool of well-trained postbaccalaureates who will transition into and complete rigorous biomedical, research-focused doctoral degree programs (e.g., Ph.D. or M.D./Ph.D.) in biomedical fields relevant to the NIGMS mission.
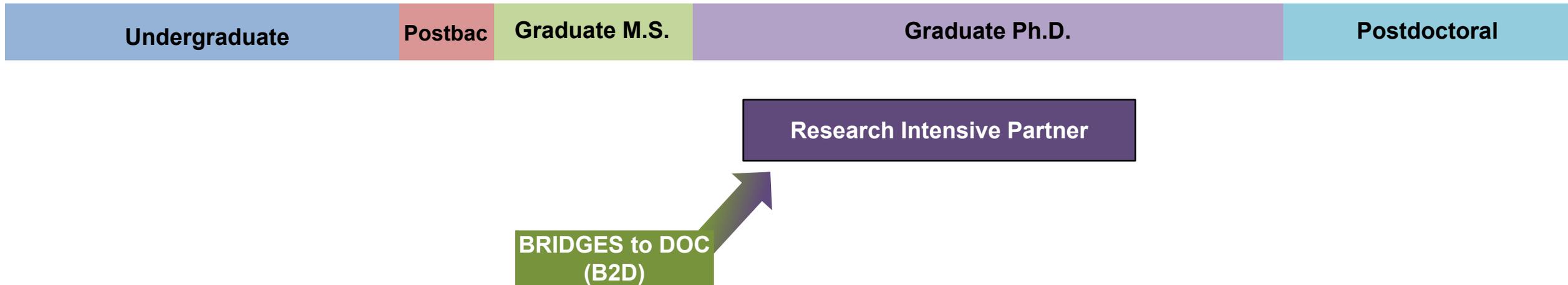
Applications due in January

Undergraduate	Postbac	Graduate MS	Graduate PhD	Postdoctoral

PREP

Programs for Master's and Predoctoral Trainees

Graduate M.S.

Graduate Ph.D.

Bridges to the Doctorate – Partnerships (T32)

Undergraduate	Postbac	Graduate M.S.	Graduate Ph.D.	Postdoctoral

Research Intensive Partner
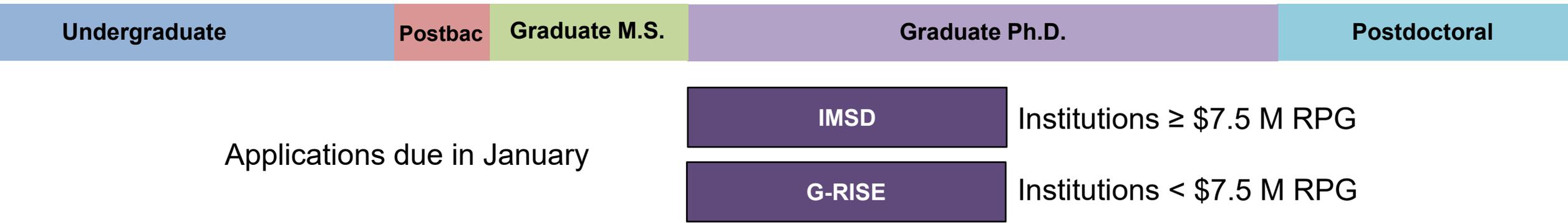
BRIDGES to DOC (B2D)

- Encourage a strong partnership that offers a well-integrated set of activities both pre-and post-bridging
- Reduce the time to Ph.D. degree (e.g., with effective skill-building activities and course credit agreements)
- Enhance the research efforts of the faculty at the master's degree granting institution through inter-institutional efforts

Applications due in September

Diversity Enhancing Graduate Diversity Training Programs (T32)

Initiative for Maximizing Student Development (IMSD)
Graduate Research Training Initiative for Student Enhancement (G-RISE)

Undergraduate	Postbac	Graduate M.S.	Graduate Ph.D.	Postdoctoral

Applications due in January

IMSD	Institutions ≥ $7.5 M RPG
G-RISE	Institutions < $7.5 M RPG

- Emphasize the development of a diverse pool of scientists earning a Ph.D., who have the skills to successfully transition into careers in the biomedical research workforce.
- Trainee Support for 2-3 years (typically early years)

Medical Scientist Training Programs (MSTP)

Goal is to to develop a diverse pool of highly trained clinician-scientist leaders available to meet the nation's biomedical research needs

Undergraduate	Postbac	Graduate MS	Graduate PhD	Postdoctoral

Applications due in January, May, September

MSTP

Specifically, for Historically Black Colleges and Universities, Tribal Colleges and Universities and institutions in IDeA states

Leading Equity and Advancing Diversity MSTP

Applications due in January

Institutional Programs for Postdoctoral Trainees and Scholars

Institutional Research and Academic Career Development Award (IRACDA) (K12)

- **IRACDA supports postdoctoral training to prepare for independent research and teaching careers in academia**
- **Postdoctoral scholars have a research and teaching mentor**
- **Scholars split time doing research (75%) and in the classroom (25%) at the partner institution**

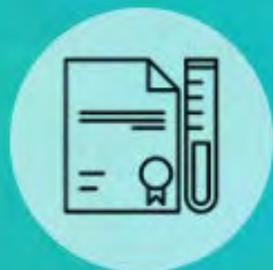| Undergraduate	Postbac	Graduate MS	Graduate PhD	Postdoctoral

Teaching Intensive Partner

IRACDA

Applications due in October